PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING ALTERIOR INTERNATIONAL SEARCHING ALTERIORIES.				
To: GEORGE W. MOXON, II, ROETZEL & ANDRESS 222 SOUTH MAIN STREET			PCT	
AKRON, OH 44308			ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY	
				(PCT Rule 43bis.1)
			Date of mailing (day/month/year)	0.9 FEB 2005
Applicant's or agent's file	reference	Y .	FOR FURTHER	ACTION See paragraph 2 below
International application N	0.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US04/24688		30 July 2004 (30,07,200	14)	Titoling data (day/monant/sear)
International Patent Classif	ication (IPC)	or both national classifica	tion and IPC	
IPC(7): F01N 3/10; B01D	50/00, 53/34	. and US Cl.: 502/527.19;	422/173, 177, 178.	
Applicant				
LEXCO, INC.				
1. This opinion contains i	ndications rel	ating to the following item	ıs:	
Box No. I	Basis of the	opinion		
Box No. II	Box No. II Priority			
Box No. III	II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV	Lack of uni	Lack of unity of invention		
Box No. V	Reasoned stapplicability	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
Box No. VI	Certain doc	uments cited		
Box No. VII	Box No. VII Certain defects in the international application			
Box No. VIII	Certain obs	ervations on the internation	nal application	·
2. FURTHER ACTIO	N	•		ı
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the ISA/ US			Authorized officer	0
Mail Stop PCT, Atm: ISA/US Commissioner for Patents			Cam N Nguyen	J. Whiteld
P.O. Box 1450 Alexandria, Virginia 22313-1450			Telephone No. 57	1-272-1700
Facsimile No. (703) 305-3230 Telephone No. 571-272-1700				

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/24688

Box No. I Basis of this opinion				
1. With	regard to the language, this opinion has been established on the basis of the international application in the language in which s filed, unless otherwise indicated under this item.			
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).			
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a.	type of material			
	a sequence listing			
	table(s) related to the sequence listing			
įb.	format of material			
	in written format			
	in computer readable form			
c.	time of filing/furnishing			
	contained in international application as filed.			
	filed together with the international application in computer readable form.			
	furnished subsequently to this Authority for the purposes of search.			
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additi	ional comments:			
	·			
m PCT	/ISA/237/Roy No. D. (Japuan, 2004)			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/24688

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	1-8 YES	}
• • •	Claims	NONE NO	
Inventive step (IS)	Claims	1-8 YES	3
Involutive step (25)		NONE NO	
Industrial applicability (IA)	Claims	1-8 YES	S
mastra approaching (-1)		NONE NO	
			_

2. Citations and explanations:

Claims 1-8 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the following. As concern with claims 1-7, the prior art does not disclose or fairly suggest a ceramic packing element comprising a monolith structure having the claimed characteristics. Particularly, the requirement is that the openings of the monolith structure have rounded corners having a radius of between 0.3 and 1.8 mm (as specified in claim 1).

As concern with claim 8, the prior art does not disclose or fairly suggest a regenerative thermal oxidizer including a solid body, which formed of heat resistant, heat retaining material having the structure as claimed and having rounded corners having a radius of between 0.3 and 1.8 mm (as specified in claim 8).

There is no motivation to combine the teachings of the references together.

Claims 1-8 meet the criteria set out in PCT Article 33(4), and thus the ceramic packing element and regenerative thermal oxidizer have industrial applicability because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 109617-0001	· FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2004/024688	International filing date (day/month/year) 30 July 2004 (30.07.2004)	Priority date (day/month/year) 01 August 2003 (01.08.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant LEXCO, INC.				

1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	3. This report contains indications relating to the following items:					
	Box No. I	Basis of the report	•			
	Box No. II	Priority	•			
	Box No. III	Non-establishment of opi applicability	nion with regard to novelty, inventive step and industrial			
	Box No. IV	Lack of unity of invention	ı			
	Box No. V		r Article 35(2) with regard to novelty, inventive step or industrial d explanations supporting such statement			
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the inte	rnational application			
	Box No. VIII	Certain observations on t	ne international application			
4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).						
						
	,		Date of issuance of this report 06 February 2006 (06.02.2006)			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland			Authorized officer Athina Nickitas-Etienne			
			Telephone No. +41 22 338 89 95			
T2 T	OCT/ID /272 (January 2004)					